MISB MOTION IMAGERY STANDARDS BOARD	**MISB ST 1301.2**
STANDARD **Motion Imagery Identification System - Augmentation Identifiers**	**27 February 2014**

1 Scope

Motion imagery data is generated by many different sensors, distributed across many different networks and received by many different users and systems. To coordinate analysis, manage and generally prevent confusion with such a large number of motion imagery sources it is important to define a consistent name or identity for each source along with supplemental identifiers for various purposes. The Motion Imagery Identification System (MIIS) is a pair of Standards – ST 1204 and ST 1301. ST 1204 defines the consistent name of the source and ST 1301 (this document) defines the supplemental identifiers, called augmentation identifiers.

Please refer to MISB ST 1204 for the overview, scope and background of the MIIS.

2 References

2.1 Normative References

The following references and the references contained therein are normative.
[1]   MISB ST 1204.1 Motion Imagery Identification System (MIIS), Oct 2013

2.2 Informative References

[2]   SMPTE ST 336-2007 Data Encoding Protocol Using Key-Length-Value

3 Modifications and Changes

Revision	Date	Summary of Changes
ST 1301.2	02/27/2014	• Promoted to a Standard

4 Acronyms

KLV   Key Length Value
LS   Local Set

5   Background - Informative

Refer to MISB ST 1204 for the background of this ST.

6   Introduction

The MIIS has two parts, the required Core Identifier (defined in MISB ST 1204[1]) and a list of optional Augmentation Identifiers. The purpose of a **Core identifier** is to provide a unique "name" for a motion imagery source. The Core ID name is composed of one or more UUID values as specified in ST 1204. The Core Identifier can be used standalone by inserting it directly into a metadata stream or it can be embedded into other KLV constructs (Universal Sets, Local Sets, etc.), such as the Augmentation Local Set (LS) described below.

Augmentation identifiers provide further context about the motion imagery data, they supply humanly readable information that can be used to manage or exploit the motion imagery. They can contain fixed data, such as a Ground Station ID, or referenced data. For example the systems can use third party databases to reference and cross correlate information for insertion into the data stream for downstream reference. The augmentation data is informational only – it is not required for formal identification. Augmentation Identifiers can be added by any system throughout the data flow and they are grouped together in a LS.

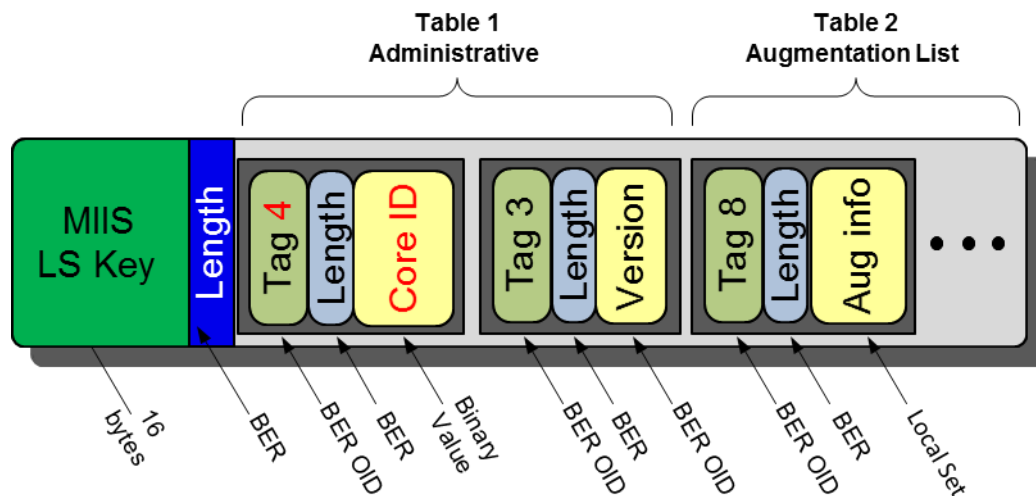## 6.1.1 Augmentation Identifier's Local Set

Requirement	
ST 1301.2-01	The Augmentation Identifers Local Set key shall be 06.0E.2B.34.02.0B.01.01.0E.01.03.05.03.00.00.00 (CRC 47531, symbol of "miis_lds

The tags used in the LS are defined in Table 1 and Table 2 in Appendix A. Table 1 lists the administrative tags and Table 2 lists the MISB defined identifiers.

Table 1: MIIS LS Administrative Tags/Keys

Tag	Name / Symbol	KLV Universal Key (Hex)	Description
1	Unused	Unused	This Tag was used in RP 1204 for Absolute ID but this tag has been deprecated.
2	Unused	Unused	This Tag was used in RP 1204 for Relative ID but this tag has been deprecated.
3	Version document_version	060E-2B34-0101-0101-0E01-0205-0500-0000 (CRC 56368)	Version of this document – BER OID integer.
4	Core Identifier core_id	060E-2B34-0101-0101-0E01-0405-0300-0000 (CRC 30280)	ST 1204 Core Identifier
5	Reserved	Reserved	Reserved
6	Reserved	Reserved	Reserved
7	Reserved	Reserved	Reserved
8	Start of Augmentation Values - See Table 2 in Appendix A.		

Figure 1 shows an example of an Augmentation LS. This illustration shows the LS with the Core ID, version and an augmentation list.

Figure 1: MIIS LS

To ensure that the values in the LS are interpreted properly the version number needs to be included with every KLV LS value.

Requirement	
ST 1301.2-02	The Augmentation LS shall contain a version number (Tag 3) value.
ST 1301.2-03	The Augmentation LS shall contain a Core Identifier (Tag 4) value.

Appendix A

The following table lists the <u>MISB Approved</u> items that can be supplied in the Augmentation List. Additional items are added per MISB approved updates to this document.

Table 2: MIIS LS Augmentation Identifier Tags/Keys

Tag	Name / Symbol	KLV Universal Key (Hex)	Description
8	<Name>	<Key>	<Supporting Documentation>
9	<Name>	<Key>	<Supporting Documentation>
10	<Name>	<Key>	<Supporting Documentation>
11	…		